

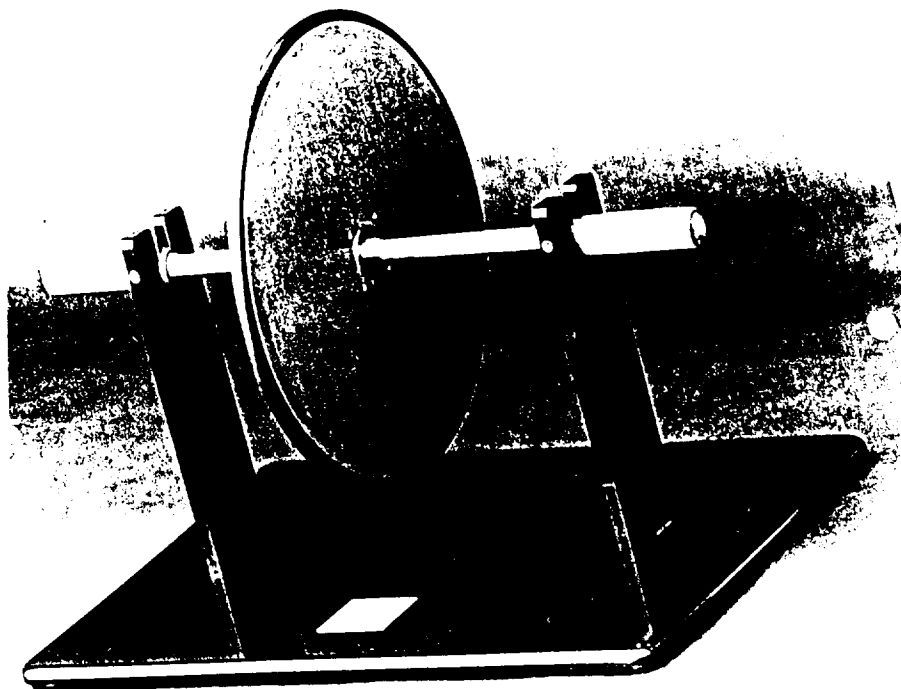
**SUMMARY OF  
AIRCRAFT GYRO ROTATION TRAINER**

**SEPTEMBER 1995**

**DEVICE 6E33**

**NAVAL AIR WARFARE CENTER  
TRAINING SYSTEMS DIVISION**

**ORLANDO, FLORIDA**



**TRAINING CATEGORY:**

Basic Science (Gyroscopic rotation)

**PURPOSE OF DEVICE:**

To provide a visual example of basic gyroscopic precession.

**ORIGINATING AGENCY:**

CNO/AIR

**INTENDED USE:**

For training enlisted personnel with little or no background in aircraft electronics or gyro operations in the dynamics of gyroscopic precession.

**SECURITY CLASSIFICATION  
OF DEVICE:**

Device 6E33 is unclassified.

**FUNCTIONAL DESCRIPTION:**

Device 6E33 is a teaching aid that consists of a free rolling wheel assembly and support structure mounted on an aluminum base. The wheel assembly consists of O-ring stock on an aluminum wheel. The wheel has a bearing with a 1/2" stud through it. The stud is threaded into two 12" shafts (with 4" handles), one at each end, which can be easily removed from the support structure. The wheel can be rotated while in the support structure or while being held by the handles to illustrate gyroscopic precession.

**PHYSICAL INFORMATION:**

Dimensions: 18"x26"x20"

Weight: 49.5 lb

**EQUIPMENT REQUIRED (Not supplied):**

None

**POWER REQUIREMENTS:**

None

**INSTALLATION REQUIREMENTS:**

None

**PUBLICATIONS FURNISHED:**

6E33/34/35 Operation and Maintenance Guide, P-7196 (U)

6E33/34/35 Training Systems Utilization Handbook, P-7197 (U)

**PERSONNEL REQUIREMENTS:**

Instructor (Chief or 1st Class Petty Officer)

Trainees (Class of up to 30 members)

**CONTRACT IDENTIFICATION:**

Manufactured by Essex Corporation, Space and Defense Division, Huntsville, Alabama, under NAVAIRWARCENTRASYS DIV Contract No. N61339-94-C-0035

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